

# Amey/Severn Trent Water AMP6 Batch 1 Sewerage Schemes

## Project Profile

**Client:** Amey/Severn Trent Water

**Designer:** GHA Livigunn

**Value:** £6.9m



This contract was a batch of six sewerage infrastructure projects for Amey Services as part of Severn Trent Water's AMP6 Capital Works Programme.

We were involved in the projects from an early stage including input to solutions, preparation of budgets and programmes and engagement with key stakeholders. This collaborative working continued through the delivery stage which involved working closely with Amey, Severn Trent Water, Designers, Staffordshire Highways and other partners and stakeholders to successfully deliver the batch of schemes.

The Batch of schemes comprised:

- **St Thomas Lane, Prospect Rd & Weston to Tixall**—Three projects in Stafford constructed as part of the Stafford Growth strategy. Works included; 3 new shaft tank pumping stations up to 11.0m ID and 13.0m deep, 9,500m of Ductile Iron and HDPE rising main and 200m of 450mm gravity sewer in highways & private land installed using open cut and directional drilling no-dig techniques (HDD). Extensive traffic management was required on all the schemes which required working closely with Staffs Highways to programme Traffic Management and road closure sequencing to minimise disruption to road users and the public.



# Amey/Severn Trent Water AMP6 Batch 1 Sewerage Schemes (Cont'd)

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- **Langley Mill Transfer Scheme in Sutton Coldfield** was carried out to abandon the existing Langley Mill Sewage Treatment Works (STW) and transfer flows to Minworth STW. The scheme required construction of a new Pumping Station and cross country pipeline.

We worked closely with Amey, the designers and other partners to develop the project design and coordinate with other contractors including directional drilling and micro-tunnelling specialists for installation of the pipeline and the M & E contractor for the pumping station pump fit out.

The project included a 12.0m dia shaft tank pumping station and no-dig crossings of the A38 trunk road, Kingsbury Road, Birmingham Canal and sections of Minworth STW by Horizontal Directional Drilling (HDD) and auger boring techniques.



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- **Barton Under Needwood, Staffs.** A sewer flooding scheme which involved cleansing and relining works to an existing sewer in the A38 trunk road and a new pumping station in the sewage treatment works together with associated connection pipework.

This project was one of the largest flood alleviation schemes, in terms of benefits, to be delivered in Year 1 of AMP 6. Ground conditions were particularly challenging and required extensive well point dewatering and sump pumping. We also had to coordinate delivery of the civil works to ensure that the M & E fit out met the programme delivery date of March 2016.



- **Watlands View, Newcastle Under Lyme, Staffs.** Sewer rehabilitation scheme to replace the existing sewer which had a significant backfall along much of its length causing silting and flooding.

The presence of 3 no 132KV cables in the highway together with other utilities resulted in us reviewing the design and we put forward a proposal for an alternative solution which enabled much of the new sewer to be constructed in alleys to the rear of the road fronting properties. This significantly reduced the interface with the cables and other utilities, reduced the road closure length required as well as simplifying gas and water utility diversions (approx. £250k saving).

The final design involved construction of 260m of 450mm dia gravity sewer and 100m of sewer relining. Working adjacent to the 132KV cables required extensive liaison with Western Power regarding our proposed risk control and working methods. The closure of Watlands View to complete the works also required continuous liaison with the local highway authority and establishing a customer care strategy for the local residents affected by the closure.

